

ECLIPSE



2006 SPRING Mobile Entertainment Brochure

Music Driving On

To make driving a better and more enjoyable experience. That's always been ECLIPSE's mission since we started crafting mobile electronics over half a century ago. We focus on creating products that communicate the passion and emotion in music. Today ECLIPSE also manufactures in-car visual entertainment along with multichannel sound to create extraordinary in-car theater products. And combined with technologies such as navigation and internet-based system customization, the latest generation of products undeniably enhance the total driving experience.





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In a class all its own.



The full-featured AVN7000 installs easily for a sophisticated look and does not require any hideaway units for operation. With a sleek, stylish design, the AVN7000 enhances any car interior.



HDD Series

AVN is the innovative ECLIPSE concept that integrates audio, visual and navigation into clean, stylish designs that grace any car interior.



ESN WMA Mp3 DVD VIDEO DD DOLBY DIGITAL DTS MEMORY STICK MAGICGATE HD Radio SIRIUS

AVN7000 NEW

HDD Navigation System with 7" Wide TFT Display and DVD/MS Multi-Source Receiver

A true feat of engineering, the AVN7000 includes a 20GB HDD, 7" display and all required circuitry in a single DIN configuration that installs easily. Advanced construction and layout techniques made it possible along with new developments such as the Ultima Engine with its astonishing processing power. Entertainment is also at a high level. The AVN7000 is an exceptional performer without equals.

Navigation

20GB 1.8" HDD

7" wide TFT display with touch control

Ultima Engine

over 32,000 map colors

approx. 4 million POIs

- Multiple search modes
- Split screen displays
- Map scale from 150 feet to 250 miles
- Voice announcements and guidance
- Time zones (7 areas)

Audio/Visual

CD/CD-R/RW, WMA and MP3

DVD-Video, DVD-R/RW and DVD+R/RW*

Dual zone operation

MOSFET 50W x 4

5.1 ch. surround sound (with DCU105)

E-iSERV connectivity (with DCU105)

Dual color illumination

TV Tuner-ready

SIRIUS Satellite Radio-ready

- FM/AM tuner
- Advanced 24-bit $\Delta\Sigma$ DAC
- High-performance DSP:
 - 7-band PEQ
 - Time alignment
 - Crossover
 - Listening Position Selector
- 5V preamp output (with DCU105)
- Video output for rear monitor
- Video input
- CD Changer-ready (2 units)
- Memory Stick Duo
- Rear view camera-ready
- HD Radio-ready
- Twin security system
 - MS ESN security
 - Detachable front panel

5V PRE-OUT



SRS ESN WMA Mp3 DVD VIDEO DD DOLBY DIGITAL MEMORY STICK MAGICGATE HD Radio SIRIUS

AVN5495

ESN E5 6.5" Wide TFT Touch-Panel Display CD/DVD/MS Multi-Source Receiver with HDD Navigation

The built-in 30GB HDD contains the navigation database as well as Music Juke that automatically stores up to 3,000 tracks from CDs, creating a sizable on-board music library. The AVN5495 offers dual zone operation, allowing the front and rear passengers to have separate entertainment in each zone. Along with navigation, DVD-Video or CD entertainment is easily enjoyed without having to change discs and without any interruption.

Navigation

30GB HDD

6.5" wide TFT display with touch control

- Multiple search modes
- Split screen displays
- Map scale from 150 feet to 250 miles
- Voice announcements and guidance

Audio/Visual

CD/CD-R/RW, MP3

DVD-Video, DVD-R/RW and DVD+R/RW*

Dual zone operation

50W x 4

Circle Surround II

3,000 track Music Juke

CDDB-enabled

- FM/AM tuner
- Advanced 24-bit $\Delta\Sigma$ DAC
- High-performance DSP:
 - 5-mode soundfield control
 - 9-band EQ
 - Listening position selector
- 5V preamp output
- Video output for rear monitor
- Video input
- CD Changer-ready (2 units)
- Memory Stick-ready
- Rear view camera-ready
- MS ESN security

*Please refer to Note and Precautions.



DVD Series

DVD-based AVN products offer the benefits of dual-disc mechanisms for versatile entertainment to please all car occupants as well as feature leading navigation technologies, creating an extremely desirable product category.

5V_{PRE-OUT}



SRS[®] Circle Surround ESN WMA Mp3 DVD VIDEO/ROM DDOLBY DIGITAL HD Radio[®] SIRIUS[®] READY

AVN6600 ^{NEW}

DVD Navigation System with 6.5" Wide TFT Display and Dual-DVD Multi-Source Receiver

The AVN6600 allows flexible operation as it is equipped with two DVD playing mechanisms. Discs do not have to be switched as with a single DVD player. With navigation ongoing, entertainment can also be happening at the same time. The AVN6600 also makes it possible for passengers in the front and rear to be entertained.

Navigation

- DVD + DVD mechanisms
- 6.5" wide TFT display with touch control
- Street map

- Multiple search modes
- Split screen displays
- Map scale from 75 feet to 250 miles
- Voice announcements and guidance

Audio/Visual

- CD/CD-R/RW, WMA and MP3
- DVD-Video, DVD-R/RW and DVD+R/RW*
- Dual play operation
- 50W x 4
- Circle Surround II
- TV Tuner-ready
- SIRIUS Satellite Radio-ready
- Ready for iPod[®]

- FM/AM tuner
- Advanced 24-bit $\Delta\Sigma$ DAC
- High-performance DSP:
 - 5-mode soundfield control
 - 7-band PEQ
- Crossover
- Listening position selector
- 5V preamp output
- Video output for rear monitor
- Video input
- CD Changer-ready (2 units)
- Rear view camera-ready
- HD Radio-ready
- ESN security

5V_{PRE-OUT}



ESN Mp3 DVD VIDEO/ROM DDOLBY DIGITAL HD Radio[®] SIRIUS[®] READY

AVN5500 ^{NEW}

DVD Navigation System with 6.5" Wide TFT Display and DVD Multi-Source Receiver

The easiest way to experience the significant driving experience that AVN provides along with music entertainment, the AVN5500 combines highly-effective DVD-based navigation with an additional CD deck.

Navigation

- DVD + CD mechanisms
- 6.5" wide TFT display with touch control
- Street map

- Multiple search modes
- Split screen displays
- Map scale from 75 feet to 250 miles
- Voice announcements and guidance

Audio/Visual

- CD/CD-R/RW, MP3
- DVD-Video, DVD-R/RW and DVD+R/RW*
- 50W x 4
- SIRIUS Satellite Radio-ready

- FM/AM tuner
- High-performance DSP:
 - 5-mode soundfield control
 - 9-band GEQ
- Listening position selector
- 5V preamp output
- Video output for rear monitor
- Video input
- CD Changer-ready (2 units)
- Rear view camera-ready
- HD Radio-ready
- ESN security

*Please refer to Note and Precautions.



Dual play provides independent front and rear entertainment options.

High-performance audio functions and features

DCU105 Audio Video Matrix

Partners the AVN7000 to provide 5.1 ch. surround sound for surround-encoded material as well as upmixing 2-channel sources to surround. Also expands connectivity and flexible routing of multiple program sources.

DCU105

5.1ch. Decoder/AV Matrix Unit



Dimensions (W×H×D)

6-15/16" × 1-7/16" × 6-5/16" 175 × 36.5 × 160mm

Connects to AVN7000 and AVX5000.



Dolby Digital 5.1 ch.

dts 5.1 ch.

Dolby Pro Logic II

Time Alignment Pro

Crossover Pro

Parametric EQ Pro

AV Matrix Selector

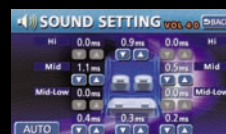
5V preamp output

MOSFET 50W x 4



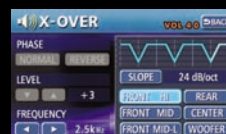
Full 5.1 ch. surround sound options that create a perfect in-car environment for any entertainment media.

The DCU105 provides professional 5.1 ch. surround sound for theater quality performance and also enables comprehensive audio customization that is remarkably easy. For instance, complex operations such as speaker time alignment, parametric EQ and crossover frequency points can be performed precisely.



Time Alignment Pro

Synchronizes all speaker arrival times at listener.

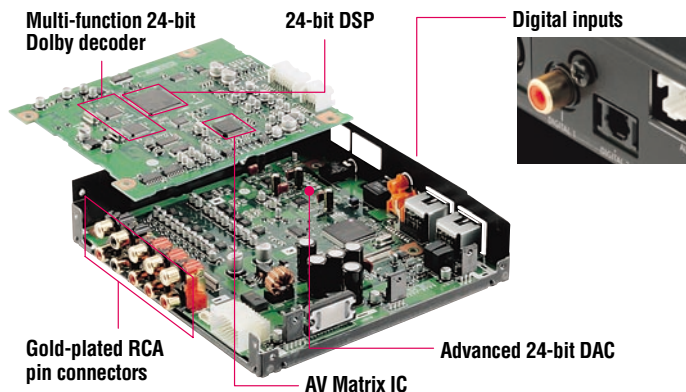


Crossover Pro

Optimizes speaker to speaker transitions for a smoother system response.

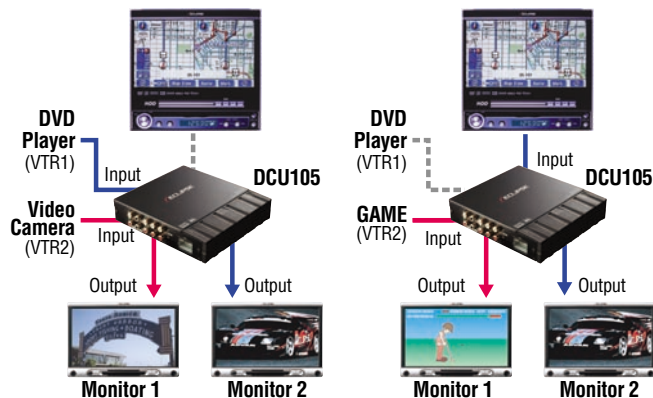
Complete processing power enhances audio and video performance as well as offering more playback options.

Connecting the DCU105 to the AVN7000 expands its scope of operation and system control with surround sound decoding options as well as comprehensive audio processing. Premium components ensure no-compromise performance.



Increased versatility offers more enjoyment for all passengers.

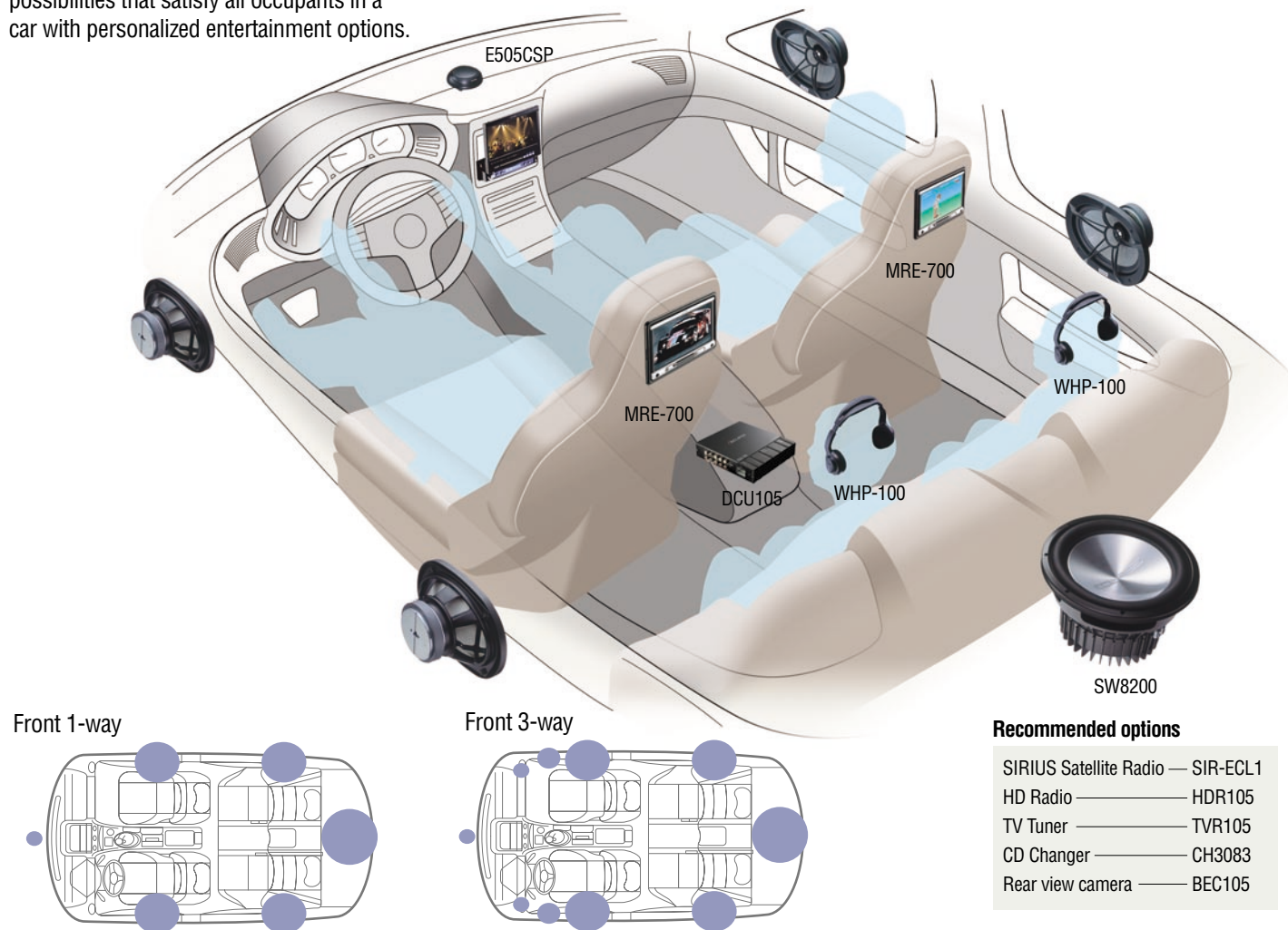
The DCU105 enables dual operation zones so that navigation can be onscreen in front while one rear passenger enjoys a DVD and another views playback from an external video source. An optional TV Tuner can also be connected.



System setups

AVN7000 + DCU105

Adding a DCU105 to the AVN7000 instantly opens up a wealth of system expansion possibilities that satisfy all occupants in a car with personalized entertainment options.



Expansion options



IPC-106 Interface Adapter for iPod®

Allows enjoying favorite music from an iPod. Also recharges when connected.

Dimensions (W × H × D) 4-11/16" × 1-5/16" × 3-9/16"
120 × 32 × 90mm

Note: Only for iPods with dock connection.

Please refer to iPod Control Function chart on p18 for other AVN models.



Dimensions (W × H × D):
6-3/4" × 1-1/16" × 4-9/16"
171.5 × 25.5 × 115.1mm

MRE-700 7" Widescreen Monitor

Its slim and silver-colored enclosure adds the perfect touch of style to rear entertainment systems, featuring automatic screen dimming to suit ambient light, a built-in speaker and headphones jack. Dedicated WHP-100 wireless headphones can also be used. AV inputs are on front and back of unit.

MRE-700W 7" Widescreen Monitor Package

Contains all the components and hardware that is required to create an ideal rear entertainment system.

Includes MRE-700 × 2, RAS-100 (AV Matrix), dedicated wireless remote control.



NEW

WHP-100 Wireless Headphones

These wireless headphones are ideal for rear entertainment when different program sources are simultaneously being played. Switchable between 2 frequencies.



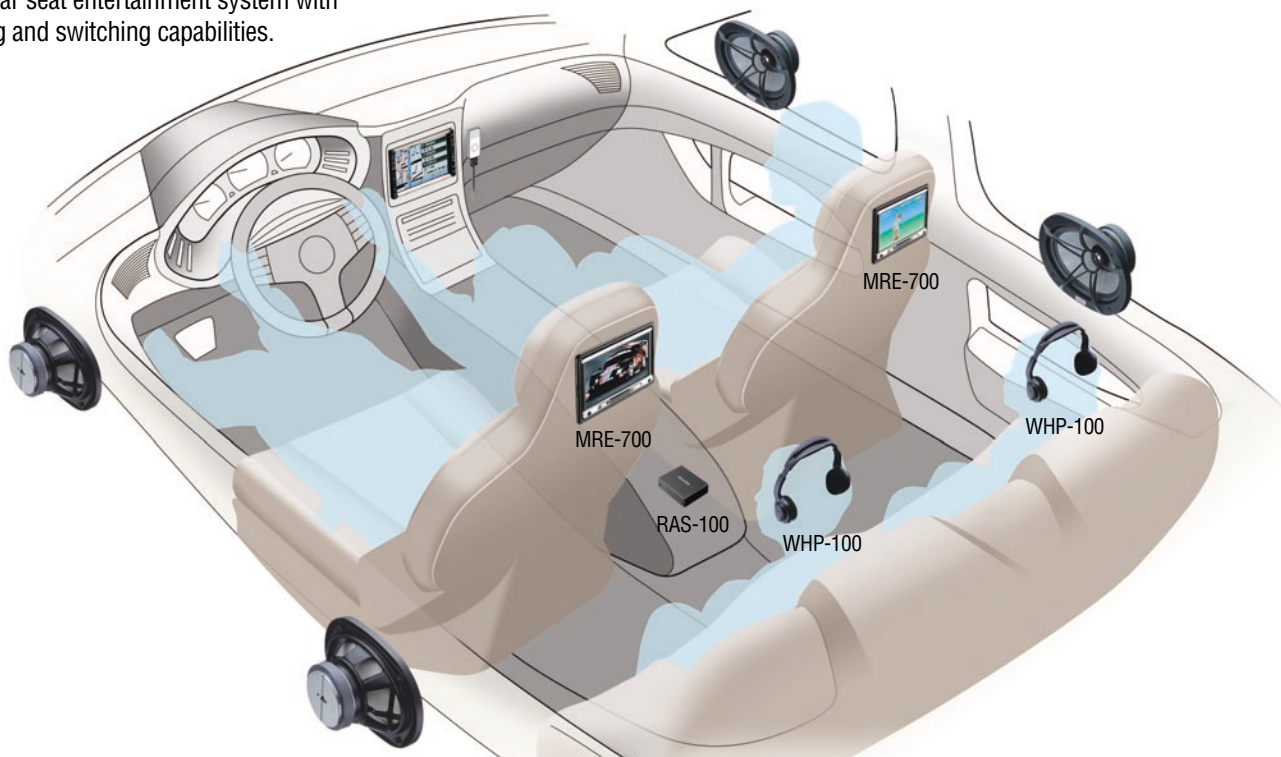
E505CSP Center Speaker with 20W Power Amplifier

A simple way to enjoy surround sound by adding a central active speaker.

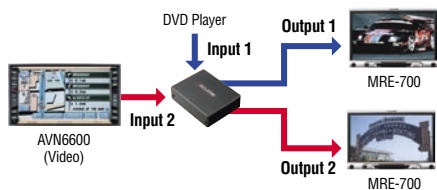
NEW

AVN6600/AVN5495/AVN5500 + MRE-700W

For the above-listed AVN products, adding the RAS-100 AV Matrix enables putting together an ideal rear seat entertainment system with full routing and switching capabilities.

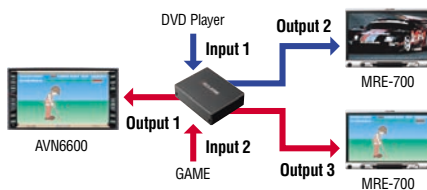


Program material signals routed from the AVN6600 to the RAS-100.



Program material from 2 sources seen on 2 monitors.

Routing program material signals from the RAS-100 through the AVN6600.



Program material from 2 sources seen on 3 monitors.

Recommended options

iPod®	iPC-106*
SIRIUS Satellite Radio	SIR-ECL1*
HD Radio	HDR105*
TV Tuner	TVR105*
CD Changer	CH3083
Rear view camera	BEC105



HDR105 HD Radio Tuner Unit

Dimensions (W × H × D)
6-15/16" × 1-7/16" × 6-5/16"
175 × 36.5 × 160mm



SIR-ECL1 ECLIPSE COMPATIBLE SIRIUS SATELLITE RADIO TUNER

Dimensions (W × H × D)
4-15/16" × 1-7/16" × 4-3/16"
125 × 35 × 105mm



TVR105 TV Tuner Unit

Dimensions (W × H × D)
5-15/16" × 1-3/16" × 4-3/16"
150 × 30 × 105.2mm



BEC105 Rear View Camera

Rear view camera-ready

The BEC105 optional rear camera can be connected to the AVN units to facilitate parking.



CH3083 8-Disc CD Changer with Magazine Unit



RMC105 Wireless Remote

MDV-06D 2006 Version Update Navi Disc

For: AVN5435 and AVN2454.
Includes Street Map data.
MDV-06D data compiled as
of December 2004.

*For connection details of each unit, please see p18 – p19.

Features List

	AVN7000	AVN5495	AVN6600	AVN5500
Media				
HDD	1.8" 20GB	30GB	—	—
DVD	●	●	●	●
CD	●	●	●	●
Memory Stick	●*1 (MS Duo only)	●	—	—
Navigation				
Navi Device				
HDD Navigation	●	●	—	—
DVD Navigation	—	—	●	●
Ultima Engine	●	—	—	—
Displaying				
Display	7" EGA	6.5" EGA	6.5" EGA	6.5" EGA
Split screen	●	●	●	●
Street name	●	●	●	●
Point-of-Interest (POI)	approx. 4,000,000 points	approx. 3,150,000 points	approx. 5,990,000 points	approx. 5,990,000 points
Street map	—	—	●	●
Operation				
Touch panel control	●	●	●	●
Searching				
Address search	●	●	●	●
POI Name	●	●	●	●
POI Category	●	●	—	—
Emergency search	Hospital/Police	Hospital/Police	Hospital/Police	Hospital/Police
Memory search	●	●	●	●
Previous search	●	●	●	●
Map search	●	●	●	●
Intersection search	●	●	●	●
Freeway search (ENTER/EXIT)	●	●	●	●
Coordinates search	●	●	●	●
Telephone number search	●	●	—	—
Home search	●	●	●	●
Quick access point search	●	●	●	●
Routing				
3 routes information	●	●	●	●
Detours	●	●	●	●
Enroute stopping points	●	●	●	●
Route preview	●	●	●	●
Assistance				
Voice announcement	English/French	English/French	English/French	English/French
Voice announce switch L/R	●	—	—	—
Voice announce volume control	●	●	●	●
Intersection zooming	●	●	●	●
Freeway guidance	●	●	●	●
Auto rerouting	●	●	●	●
Estimated arrival time	●	●	●	●
Security				
ECLIPSE Security Network	●	●	●	●
Detachable front panel	●	—	—	—
Other				
Select User	●	●	●	●

*1: Memory Stick Duo is sold separately and compatible with 128MB or under.

Specifications

	AVN7000	AVN5495	AVN6600	AVN5500
GENERAL				
Power output	50W × 4 (MAX)	50W × 4 (MAX)	50W × 4 (MAX)	50W × 4 (MAX)
Dimensions (W × H × D)	7" × 2" × 6-1/2" (180 × 50 × 165mm)	7" × 4" × 6-1/2" (180 × 100 × 165mm)	7" × 4" × 6-1/2" (180 × 100 × 165mm)	7" × 4" × 6-1/2" (180 × 100 × 165mm)
Weight	5.1lbs (2.3kg)	7.9lbs (3.6kg)	7.0lbs (3.2kg)	6.6lbs (3.0kg)
DISPLAY				
Display	7" wide (16:9), low-glare panel	6.5" wide (16:9), low-glare panel	6.5" wide (16:9), low-glare panel	6.5" wide (16:9), low-glare panel
Resolution	336,960 dots (480 × 234 × 3)	280,800 dots (400 × 234 × 3)	280,800 dots (400 × 234 × 3)	280,800 dots (400 × 234 × 3)
Screen aspect ratio	4 types	4 types	4 types	4 types
FM TUNER				
Frequency range	87.75 — 107.9MHz (200kHz step)	87.75 — 107.9MHz (200kHz step)	87.75 — 107.9MHz (200kHz step)	87.75 — 107.9MHz (200kHz step)
Usable sensitivity	19dBf (98.1MHz)	12dBf (98.1MHz)	13dBf (98.1MHz)	13dBf (98.1MHz)

	AVN7000			AVN5495	AVN6600	AVN5500
AUDIO	AVN7000 only	DCU105 connected				
		Front-1 way system	Front-3 way system			
DVD						
DVD-Video		●		●	●	●
DVD-R/RW, DVD+R/RW ^{*2}		●		●	●	●
Dolby Digital 5.1 ch.	—		●	—	—	—
dtS 5.1 ch.	—		●	—	—	—
Dolby Pro Logic II	—		●	—	—	—
CD						
CD		●		●	●	●
CD-R/RW		●		●	●	●
MP3		●		●	●	●
WMA		●		—	●	—
MS						
ATRAC3	● (Magic Gate Memory Stick Duo)			●	—	—
Audio function						
MUSIC JUKE	—			● (3,000 track)	—	—
Circle Surround II	—			●	●	—
Time Alignment	Car type: 6 types, Speaker position: Tweeter Rear SP	Front (L/R), Rear (L/R), Center, Subwoofer	F-Hi (L/R), F-Mid (L/R), F-ML (L/R), R (L/R), Center, Subwoofer	—	—	—
Parametric EQ	7 bands	F/R/C: independent 5 bands, SW: 1 band		—	7 bands	—
Graphic EQ	—	—	—	9 bands	—	9 bands
Crossover	●	F (HPF)/R (HPF)/ C (HPF)/SW (LPF)	F-Hi (HPF), F-Mid (HPF/LPF), F-ML (HPF/LPF), R (HPF), SW (LPF)	—	●	—
Multi-Harmonizer	MP3/WMA/ATRAC3			MP3/ATRAC3	MP3/WMA	MP3
Listening Position selector	FR, FL, F, R, OFF			●	●	●
Non Fader Level/Phase control	●			●	●	●
Woofer output	●			●	●	●
E-iSERV Connectivity	—	● (Audio customize)		—	—	—
Audio device						
Amplifier	MOSFET 50W × 4			50W × 4	50W × 4	50W × 4
Advanced 24-Bit $\Delta\Sigma$ DAC	●			●	●	—
Pre Amp Output	F/R/NF, 2V	Front/Rear/Center/Subwoofer, 5V		F/R/NF, 5V	F/R/NF, 5V	F/R/NF, 5V
Video Output	●			●	●	●
Video Input	●			●	●	●
Digital Output (Coaxial)	●			—	—	—
Digital Input (Coaxial)	—	●		—	—	—
Digital Input (Optical)	—	●		—	—	—
ANALOGUE RADIO TUNER						
FM	FM1: 6, FM2: 6, FM3: 6			FM1: 6	FM1: 6, FM2: 6, FM3: 6	FM1: 6
AM	AM: 6			AM: 6	AM: 6	AM: 6
OPTIONAL						
Ready for iPod®	▲*3			▲*3	●	▲*3
HD Radio-ready	●			—	●	●
SIRIUS SATELLITE RADIO-ready	●			—	●	●
CD Changer-ready	2 (daisy chain)			2 (daisy chain)	2 (daisy chain)	2 (daisy chain)
Rear View Camera-ready	●			●	●	●
TV Tuner-ready	●			—	●	—
Rear Monitor output	1	2		1	1	1

^{*2}: Please refer to Note and Precautions. ^{*3}: Please see Control Function chart on p23 for details.

	AVN7000	AVN5495	AVN6600	AVN5500
AM TUNER				
Frequency range	530 — 1.710kHz (10kHz step)	530 — 1.710kHz (10kHz step)	530 — 1.710kHz (10kHz step)	530 — 1.710kHz (10kHz step)
Usable sensitivity	22μV	22μV	22μV	22μV
CD SECTION				
Frequency response	20 — 20,000Hz ±3dB	20 — 20,000Hz ±3dB	20 — 20,000Hz ±1dB	20 — 20,000Hz ±1dB
Total harmonic distortion	0.04% (0dB 1kHz)	0.04% (0dB 1kHz)	0.02% (0dB 1kHz)	0.01% (0dB 1kHz)
MS SECTION				
Frequency response	20 — 20,000Hz ±3dB	20 — 20,000Hz ±3dB	—	—
Total harmonic distortion	0.04% (0dB 1kHz)	0.04% (0dB 1kHz)	—	—
EQUALIZER SECTION				
Equalizer	63Hz — 16kHz (25 points) ±10dB	63Hz — 12kHz (1/2oct.step) ±10dB	63Hz — 12kHz (25 points) ±10dB	63Hz — 12kHz (1/2oct.step) ±10dB
HDD SECTION				
Operating temperature range	−10 — 65°C	−10 — 65°C	—	—
Storage temperature range	−40 — 85°C	−40 — 85°C	—	—

AVX Series

For the ultimate in mobile entertainment, the AVX Series offers various configurations and features to select from. Each offers a brilliant combination of audio and visual technologies that demonstrate ECLIPSE's commitment to enjoyable driving.



AVX5000

DVD/MS Multi-Source Receiver with 7" Wide TFT Display



7" TFT display with touch control
CD/CD-R/RW, WMA and MP3
DVD-Video, DVD-R/RW and DVD+R/RW
Circle Surround II
Memory Stick Duo
MOSFET 50W x 4
5.1 ch. surround sound (with DCU105)
E-iSERV connectivity
TV Tuner-ready
SIRIUS Satellite Radio-ready

- FM/AM tuner
- Advanced 24-bit $\Delta\Sigma$ DAC
- High-performance DSP:
 - Parametric equalizer
 - Time alignment
 - Crossover
 - Listening Position Selector
- 5V preamp output (with DCU105)
- Video output for rear monitor
- Video input
- CD Changer-ready (2 units)
- Rear view camera-ready
- HD Radio-ready
- Twin security system
 - MS ESN security
 - Detachable front panel

Stylish appearance complements any cockpit.



Featuring a sophisticated design and appearance that enhances any interior, the AVX5000 sports a matte black finish with translucent acrylic and silver design accents that give it a stylish look. Its slim, single DIN dimensions contain a large, high-resolution 7" display that emerges at the touch of a button.

Dedicated to providing the best in entertainment.

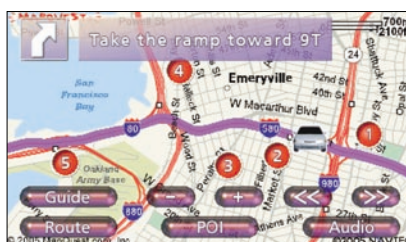
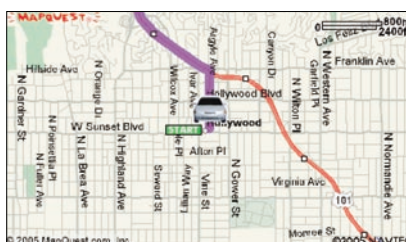
The AVX5000 is an elegant and compact unit that effortlessly handles program material on DVD, CD, and Memory Stick with its uncompromising build quality and use of premium parts and components. The AVX5000 can also be partnered with the amazing DCU105 Audio Video Matrix to take advantage of complete surround features and functions as well as versatile signal routing to increase system expansion options. This allows DVD Dual Play so that the front and rear passengers can enjoy separate entertainment. In addition, E-iSERV connectivity enables easy comprehensive audio customization to optimize system response for any car.

NEW Area Shot

The Area Shot feature has been newly refined to offer more assistance for travel routes. Now map displays are in full-color and up to 5 POIs can be shown. Location displays can now conveniently be viewed with 3-step zoom in ability.



Routes can be set by accessing ECLIPSE's E-iSERV server. Map data is then downloaded onto a Memory Stick Duo which can be input into the AVX5000.



Location displays have 3-step zoom viewing ability.

Note: Area Shot is convenient for reviewing the route. However, the car must not be in motion when using Area Shot. GPS option for AVX5000 allows current position to be displayed. NAVTEQ ON BOARD is a trademark of NAVTEQ.



'04 Product of the Year

Incorporating a 20GB HDD for immense music file storage as well as a brilliant VGA display, the AVX2494 offers the best of entertainment for audio and visual program material.

20GB HDD
6.5" TFT VGA display with touch control
CD/CD-R/RW, MP3
DVD-Video
3,000 track Music Juke
CDDB-enabled

- FM/AM tuner
- High-performance DSP:
 - 5-mode soundfield control
 - 9-band GEQ
 - Listening position selector
- CD Changer-ready (2 units)
- Memory Stick-ready
- Rear view camera-ready



An incredible performer, the AVX2404 is ready to offer any entertainment required. The most popular audio-dedicated formats as well as DVD-Video combine with 5.1 ch. surround sound for satisfying any entertainment desire.

- 5.8" TFT display with touch control
- CD/CD-R/RW, MP3
- DVD-Video
- MOSFET 50W x 4
- 5.1 ch. surround sound
- Multi window

- FM/AM tuner
- Advanced 24-bit $\Delta\Sigma$ DAC
- High-performance DSP:
 - 5-mode soundfield control
 - 7-band GEQ
 - Listening position selector
- Video input/output
- CD Changer-ready
- Memory Stick-ready
- Rear view camera-ready
- Wallpaper selectable

Specifications			
14.4V Power Supply	AVX5000	AVX2494	AVX2404
Max. Power Output	50W × 4	40W × 4	50W × 4
Display	7" wide (16:9), low-glare panel	6.5" wide (16:9), low-glare panel	5.8" wide (16:9), low-glare panel
Display Resolution	336,960 dots (480 × 234 × 3)	1,152,000 dots (800 × 480 × 3)	280,800 dots (400 × 234 × 3)
Screen Aspect Ratio	4 types		3 types
FM Frequency Range	87.75 — 107.9MHz (200kHz step)		
Usable Sensitivity	15dBf	13dBf	
AM Frequency Range	530 — 1710kHz (10kHz step)		
Usable Sensitivity	24μV	22μV	
CD Frequency Response	20 — 20,000Hz, -2±2dB — 0±2dB	20 — 20,000Hz, 1dB	
Total Harmonic Distortion	0.03% (0dB, 1kHz)	0.03% (0dB, 1kHz)	
Equalizer	Parametric: 63Hz — 16kHz±10dB, (25points)	Graphic: 63Hz — 12kHz, ±10dB	
Dimensions (W × H × D)	7" × 2" × 6-1/2" (180 × 50 × 165mm)	7" × 4" × 6-1/2" (180 × 100 × 165mm)	
Weight	4.8lbs (2.2kg)	6.8lbs (3.1kg)	6.2lbs (2.8kg)

Note: Please refer to iPod Control Function chart on p23 for other AVX models.

A CD Receiver that changes all the rules.

Along with a feature and function list that offers more than any other product in its class, the CD7000's consummate performance and user customization features make it the audiophile choice.



CD7000 Special Features

The CD7000 incorporates many new features and functions previously never seen in CD Receivers, redefining just what is possible to achieve on this platform.

New CD Receivers

Combining style and function, the CD7000 incorporates stunning firsts such as the large, multi-color OEL display, GPS connectivity for enhanced driving assistance functions, and a rotary multi-function control that simplifies complex tasks.



Brilliant OEL display

This new display's beautiful image quality enhances map displays and slide shows, greatly adding to ease of use.



Display pattern selection

A choice of 6 display patterns is available at the touch of a button.



Additional GPS-linked functions

Using GPS functions provides a useful traveling directional display as well as a speedometer display, longitude and latitude.



GPS-linked volume control

With the GPS105 connected, the system volume is automatically compensated to match the car's speed.

Louder as the car increases speed.
Softer as car's speed drops.



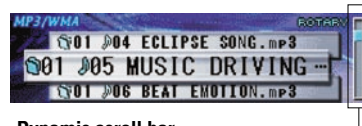
New rotary mode switch

A new control that makes operation easier and smoother. Using this control is intuitive, easier and faster to locate the desired music than with conventional controls. Quickly scroll through many of MP3 and WMA files with the rotary switch and use MODE to switch to more precise operation with the directional key.

Smoother, easier operation



MODE switch directional key



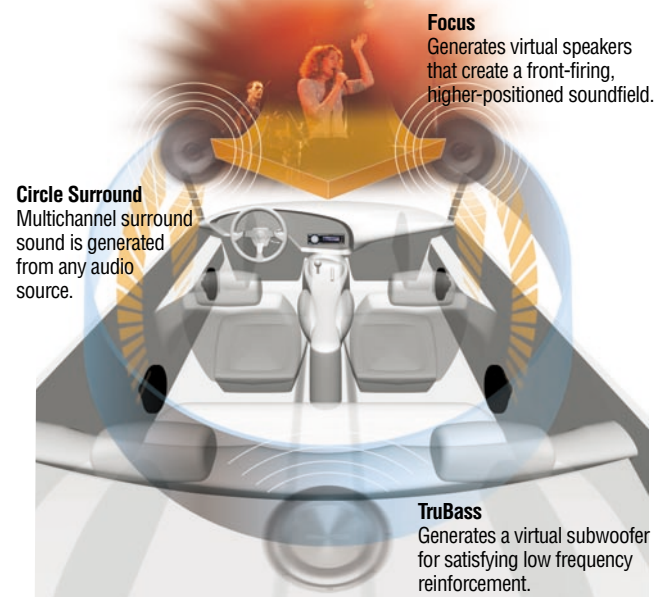
Dynamic scroll bar

Located on the right of the display area is a scrolling bar that graphically shows scroll progress so you always know where you are, even in a long list.

Circle Surround II



Audio enhancement technology featuring **Circle Surround** to upmix any program material audio signals for full surround effects on 4-speaker systems, **Focus** that raises the soundfield and positions it in front of the listeners and **TruBass** for low frequencies to be perceived as being output from small speakers.



Circle Surround
Multichannel surround sound is generated from any audio source.

Focus
Generates virtual speakers that create a front-firing, higher-positioned soundfield.

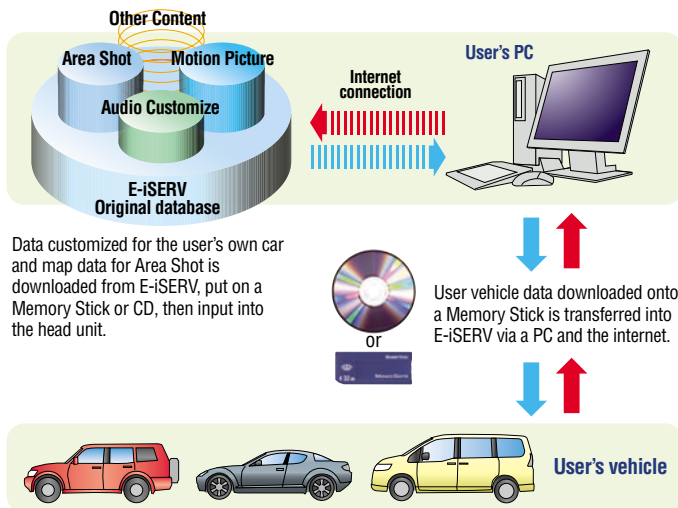
TruBass
Generates a virtual subwoofer for satisfying low frequency reinforcement.



This is where E-iSERV starts!
www.eclipse-web.com

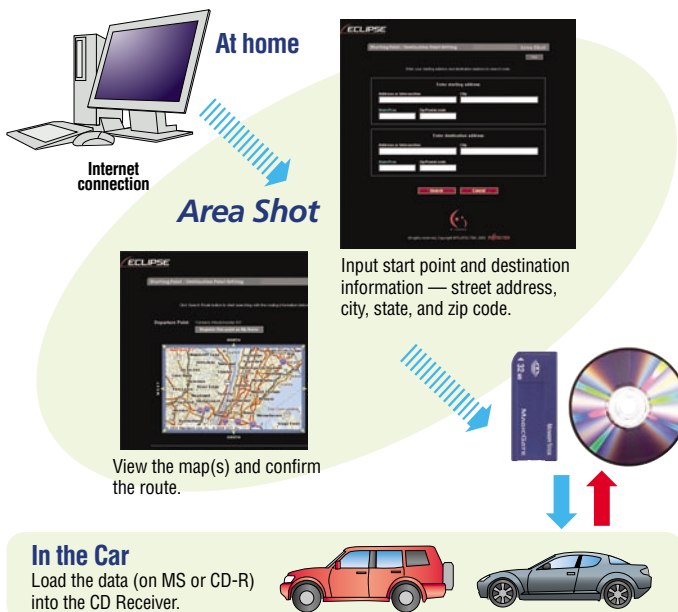
E-iSERV advances

ECLIPSE's E-iSERV has raised user customization to a new level that many thought could not be done. By using the internet and a personal computer, the user can access functions and features that can optimize in-car system response and provide map guidance, along with customizing displays and enhanced control abilities.



Area Shot

Adding value to CD Receivers with map viewing and route assistance, this feature allows searching for a destination and downloading the route to get there. Once the data has been input into the CD Receiver, it can be viewed to confirm the route.



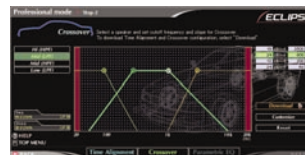
Audio Customize

E-iSERV allows a degree of user customization previously unavailable except with test equipment and technicians. Audio data and system response from a specific car is sent to a dedicated audio processing server where it is evaluated and adjusted to create a system response tailored for that particular car.



Time Alignment

Set delay and level for each speaker to align arrival times for a more natural imaging soundfield.



Crossover

Adjusts speaker to speaker transition frequencies for smooth system integration, creating a better overall response without speaker discontinuities.

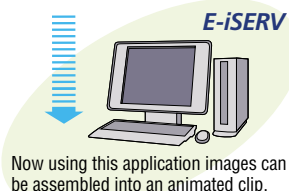
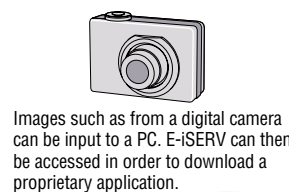


Parametric EQ

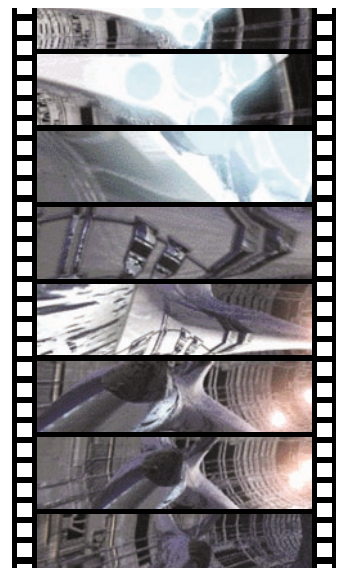
Up to 10 frequency bands for each channel can be adjusted to eliminate peaks and dips in system frequency response.

Motion Picture

Customizing the display panel is easy using a downloadable proprietary application to edit and sequence up to a maximum of 70 images to create a 7-sec. animated clip.



CD5000 Motion Picture feature.



CD7000 Motion Picture feature.

NEW AREA SHOT

The CD7000 and CD5000 make best use of enhanced GPS functions to assist driving when the optional GPS105 is connected.

Automated map display switching

GPS allows automated map switching, moving from one map display to the next as the car progresses along a route instead of having to manually shift from one map display to the next.



Automatically switches to next map area when car enters it.

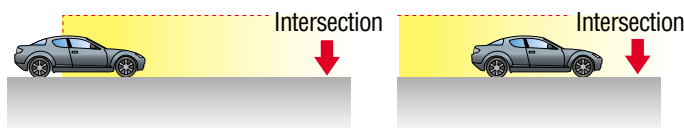


Upcoming intersection heads up signal

Greatly adding to driving convenience is this new Tone Guide feature which generates a sound signal when the current display includes an intersection. As the car continues to travel and approaches the intersection, the sound is generated twice. This audible heads up frees the driver from having to constantly refer to the map display, reducing stress and allowing more driving enjoyment.



Sound repeats just before destination



Realtime progress reports

Helping to have an idea of the progress made on a travel route reassures the driver. The GPS-linked CD7000 and CD5000 show realtime readouts of the distance remaining to the next intersection as the car travels. This is always onscreen regardless of the map type being shown.



CD7000



CD5000

The CD4000 and CD3000 will only show the actual distance between two intersections as the GPS105 cannot be used.

Intersection-to-intersection displays

On the map display, once the car leaves the area of the route's first intersection, the display automatically shifts to a display that shows the intersection most recently passed as well as the one coming up.



Intersection A

Intersection B



Automatically changes when leaving A

Quick POI information

Useful POI information is available at the touch of a button on the desired category. From the selected category, the 5 closest POIs to the car's current position are shown. Simply press on any displayed POI and various details are shown.



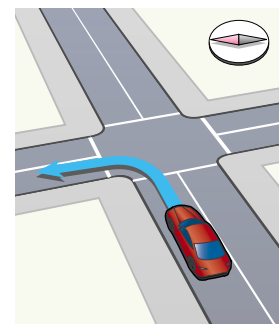
5 closest POIs.



Select button to see details.

Aligning display with car's direction

It is always more user-friendly to have the map display aligned with the direction of travel. The map automatically reorients so that the car's direction of travel agrees with the compass needle, making it easier to drive.



North-upward display (standard)



Heading-upward display

Full route simulation

Before traveling, this feature allows you to confirm the entire travel route from START to GOAL and familiarize yourself with it.

CD Receivers

ECLIPSE's latest CD Receivers incorporate technology and features that easily surpass conventional CD receivers by significantly improving basic audio performance, increasing user-customization options and refining map guidance functions. These are complete audio solutions for the mobile environment.

Positioned at the top of the new CD Receiver lineup are the CD7000 and CD5000. Designed to satisfy perfectionist audio requirements, each is built around a high-performance CD mechanism and advanced audio circuits that extract the maximum audio potential from CDs, MP3s, WMA and ATRAC3 files. In addition, ECLIPSE's interactive E-iSERV enables sophisticated user audio customization as well as new Area Shot map guidance features.



5V PRE-OUT SRS Circle Surround II



8V PRE-OUT SRS Circle Surround II



ESN WMA MP3 DISC HD Radio SIRSUS

CD7000 MOSFET 50W × 4 (max.)



ESN WMA MP3 DISC HD Radio SIRSUS

CD5000 MOSFET 50W × 4 (max.)

CD/MS Multi-Source Receiver with Fully Motorized Organic EL Display

CD/MS Multi-Source Receiver with Fully Motorized VF Face

- CD/CD-R/RW, ATRAC3 (MS), WMA and MP3
- Circle Surround II
- E-iSERV connectivity
- New Area Shot (map, directivity arrow, text and POI)
- Color OEL display
- 6-pattern illumination
- SIRIUS Satellite Radio-ready
- Ready for iPod®

- Advanced 2-mode Sound Control DSP:
 - Parametric EQ
 - 11-band (3-way speaker system)
 - 7-band (4 speaker plus subwoofer system)
- Time Alignment
- Crossover
- Multi-Harmonizer
- Custom Mode
- Rotary Mode Switch
- FM/AM tuner
- Advanced 24-bit $\Delta\Sigma$ DAC
- 5V preamp output (front/rear/non-fader)
- 3 prs. pre outputs
- 1 aux input + 1 aux input-ready
- Memory Stick-ready
- CD Changer-ready (2 units)
- HD Radio-ready
- GPS unit-ready for Area Shot and digital compass
- Twin security system
 - MS ESN security
 - Detachable front panel
- Remote control

- CD/CD-R/RW, ATRAC3 (MS), WMA and MP3
- Circle Surround II
- E-iSERV connectivity
- New Area Shot (map, directivity arrow, text and POI)
- Full-dot VF display
- 5-pattern illumination
- SIRIUS Satellite Radio-ready
- Ready for iPod®

- Advanced 2-mode Sound Control DSP:
 - 7-band Parametric EQ (advanced on)
 - Time Alignment (advanced on)
 - Crossover
 - Listening Position Selector
- Multi-Harmonizer
- Custom Mode
- FM/AM tuner
- Advanced 24-bit $\Delta\Sigma$ DAC
- High 8V preamp output (front/rear/non-fader)
- 3 prs. pre outputs
- 1 aux input + 1 aux input-ready
- Memory Stick-ready
- CD Changer-ready (2 units)
- HD Radio-ready
- GPS unit-ready for Area Shot
- ESN security
- Remote control

CD7000 Features



Blue / Red

6-pattern illumination

Making it easier than ever to personalize the CD7000 to match user preferences or an interior color scheme, a choice of six illumination patterns are offered.



Blue / Green



Blue / Amber



All Red



All Green



All Amber

Full parametric EQ functions

The full featured Parametric EQ with two separate modes makes it easy to optimize 3-way speaker systems using 11 frequency bands as well 4-speaker plus subwoofer with 7 frequency bands for a smooth overall response without peaks or dips.



The CD4000 and CD3000 can easily be at the top of most CD Receiver lineups. Accommodating CDs, MP3 and WMA files, both these products offer superb audio performance as well as full user-customization features.



5V PRE-OUT

CD4000

MOSFET 50W × 4 (max.)

Made for iPod

ESN WMA MP3 DISC HD Radio SIRIUS

CD4000

CD Multi-Source Receiver with Fully Motorized Face



5V PRE-OUT

CD3000

MOSFET 50W × 4 (max.)

Made for iPod

ESN WMA MP3 DISC HD Radio SIRIUS

CD3000

CD Multi-Source Receiver with Fully Motorized Face

- CD/CD-R/RW, WMA and MP3
- E-iSERV connectivity
- Area Shot (arrow and text)
- 3 color LCD
- 5-pattern illumination
- SIRIUS Satellite Radio-ready
- Ready for iPod®

- Bass/Mid/Treble control
- 3-band GEQ
- Crossover
- FM/AM tuner
- 5V preamp output (front/rear/non-fader)
- 3 prs. pre outputs
- 1 aux input + 1 aux input-ready
- CD Changer-ready (2 units)
- HD Radio-ready
- ESN security
- Remote control

- CD/CD-R/RW, WMA and MP3
- E-iSERV connectivity
- Area Shot (arrow and text)
- 3 color LCD
- SIRIUS Satellite Radio-ready
- Ready for iPod®

- Bass/Mid/Treble control
- 3-band GEQ
- Crossover
- FM/AM tuner
- 5V preamp output (front/rear/non-fader)
- 3 prs. pre outputs
- 1 aux input-ready
- CD Changer-ready (2 units)
- HD Radio-ready
- ESN security
- Remote control (optional)

Options

Twin security system

ECLIPSE's proven ESN now offers an additional level of deterrence. ESN is activated with a Memory Stick Duo that is designated to function as a locking/unlocking device for the CD7000. The front panel can also be detached, rendering the CD7000 totally inoperative once removed.



Interface Adapter for iPod®



IPC-106
Interface Adapter for iPod®
Dimensions (W × H × D)
4-11/16" × 1-5/16" × 3-9/16" 120 × 32 × 90mm

For compatibility with today's preeminent personal audio device, ECLIPSE's iPC-106 can be used for effectively controlling a connected iPod.* When connected to the CD7000, CD5000, CD4000 and CD3000 the adapter provides full control capabilities. The Rotary Mode Switch makes it easier and even faster to scroll up and down many of songs as well as Playlists, Artists, Albums and Genres.

Note: Please see Control Function chart on p23 for details.

* iPods with dock connection

CD Receivers

The CD2000 and CD1000 represent the entry point to ECLIPSE products, but the performance of these products outshines labels. Maintaining ECLIPSE's traditional emphasis on audio excellence by prioritizing features made it possible.

5V_{PRE-OUT}



ESN MP3 COMPACT disc DIGITAL AUDIO TEST HD Radio SIRSUS

CD2000 MOSFET 50W × 4 (max.)

CD Multi-Source Receiver

CD/CD-R/RW, MP3

High contrast LCD

SIRIUS Satellite Radio-ready

- Bass/Mid/Treble control
- 3-band GEQ
- FM/AM tuner
- 5V preamp output (front/rear/non-fader)
- 3 prs. pre outputs
- CD Changer-ready (2 units)
- HD Radio-ready
- ESN security
- Remote control (optional)



WMA MP3 COMPACT disc DIGITAL AUDIO TEST

CD1000 50W × 4 (max.)

CD Multi-Source Receiver

CD/CD-R/RW, WMA and MP3

2 color LCD

- Bass/Treble control
- 5-mode preset EQ + 1 customizable EQ
- FM/AM tuner
- Dual preoutput
- Detachable front panel
- Remote control (optional)

Options

HD Radio-ready

The CD Receivers will deliver all the potential of HD Radio-enhanced broadcasts simply by connecting the optional HDR105 HD Radio Tuner.



HDR105
HD Radio Tuner Unit

SIRIUS Satellite Radio-ready

The CD Receivers are able to take advantage of all the benefits of satellite broadcasting. The optional ECLIPSE SIR-ECL1 satellite radio tuner can be easily connected for enjoying this exciting new entertainment.

SIRIUS
SATELLITE RADIO

SIR-ECL1
ECLIPSE COMPATIBLE SIRIUS SATELLITE RADIO TUNER

GPS unit-ready

Connects to compatible CD Receiver units for use with Area Shot to enhance its features.



GPS105
GPS Unit

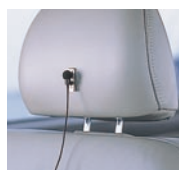
CD Changer-ready



CH3083
8-Disc CD Changer
with Magazine Unit



Remote control-ready
RMC105
Wireless Remote



NEW
MEI-100
Pro Tuning Microphone
Measures system response to help optimize system frequency response.



AUX105
AUX Cord

Feature List

	CD7000	CD5000	CD4000	CD3000	CD2000	CD1000
CONTROL						
Remote Control	●	●	●	Optional	Optional	Optional
CD Changer Control	●	●	●	●	●	—
CD-R/CD-RW	●	●	●	●	●	●
WMA	●	●	●	●	—	●
MP3	●	●	●	●	●	●
ATRAC3 Decode (Memory Stick)	●	●	—	—	—	—
Ready for iPod [®] *	●	●	●	●	▲	—
Sirius-ready	●	●	●	●	●	—
HD Radio-ready	●	●	●	●	●	—
Digital Servo System (DSS)	●	●	●	●	●	●
TUNER						
FM / AM	6/18	6/18	6/18	6/18	6/18	6/18
Station Name Input	●	●	—	—	—	—
AUDIO						
Output Voltage and Impedance	5V/55Ω	8V/55Ω	5V/55Ω	5V/55Ω	5V/55Ω	2.5V/1kΩ
MOSFET Amplification	●	●	●	●	●	—
Advanced 24-bit $\Delta\Sigma$ DAC	●	●	—	—	—	—
Source Volume Control (SVC)	●	●	●	●	—	—
Sound Control Mode	Speaker Layout		Advanced		—	—
	3Way	4SP+SW	On	Off	—	—
Circle Surround II	—	●	●	—	—	—
Parametric EQ	Hi/Mid: Independent 5bands +Low 1band	Front/ Rear: 7band	Front/ Rear: 7band	—	—	—
Graphic EQ	—	—	—	●(3band)	●(3band)	●(2band)
Frequency Response Analysis	●	●	●	—	—	—
Time Alignment	● (3Way)	● (F/R/SW)	● (Simplified)	—	—	—
Crossover	● (3Way)	● (F/R/SW)	●	●	—	—
Bass/Mid/Treble Control	●	—	●	●	●	▲(Bass/Treble)
Loudness	●	●	●	●	●	●
Multi-Harmonizer (MP3/WMA/ATRAC3/iPod)	●	●	●	—	—	—
Listening Position Selector	—	—	●	—	—	—
SFC	—	—	—	—	—	—
Non Fader Level / Phase Control	●	●	●	●	●	—
Dual Pre Outputs	●	●	●	●	●	●
Non-Fader Pre Outputs	●	●	●	●	●	—
AUX In	● (1+1optional)	● (1+1optional)	● (1+1optional)	Optional	—	—
GENERAL						
Display	Multi color OEL	8 step VF	3 color LCD	3 color LCD	LCD	2 color LCD
Illumination	6 pattern	5 pattern	5 pattern	Amber	Amber	Green
Motion Picture	—	●	—	—	—	—
Dimmer Control	●	●	—	—	—	●
E-ISERV Connection	●	●	●	●	—	—
Audio Customize (E-ISERV)	●	●	—	—	—	—
Motion Picture Customize (E-ISERV)	●	●	—	—	—	—
Area Shot (E-ISERV)	●	●	●	●	—	—
MS	●	●	—	—	—	—
CD-R	●	●	●	●	—	—
GPS Connection	●	●	—	—	—	—
Tone Guide (W/GPS)	●	●(beep)	—	—	—	—
POI	●	—	—	—	—	—
Auto Map Switch (W/GPS)	●	●	—	—	—	—
Route Simulation	●	—	—	—	—	—
Distance Display	●	●	●	●	—	—
GPS-linked volume control	●	—	—	—	—	—
GPS Information Display (W/GPS)	●	—	—	—	—	—
ESN security	●	●	●	●	●	—
Detachable Front Panel	●	—	—	—	—	●
Full Face Tilt	●	●	●	●	—	—

* Please see Contour Function chart on p23 for details.

Specifications

14.4V Power Supply		CD7000	CD5000	CD4000	CD3000	CD2000	CD1000
Max. Power Output		50W × 4 (MOSFET)					50W × 4
Lineout Output Level/Impedance		5V(0dB)/55Ω	8V(0dB)/55Ω	5V(0dB)/55Ω			2.5V(0dB)/1kΩ
Tone Control	Bass/Mid/Treble	±12dB at 80Hz/±12dB at 630Hz/±12dB at 10kHz					±10dB at 100Hz/—/±8dB at 10kHz
	Loudness	+10dB at 100Hz/+6.5dB at 10kHz					+8.5dB at 100Hz/+4dB at 10kHz
FM	Frequency Range	USA: 87.75 — 107.9 MHz (200kHz step)		Latin America: 87.75 — 107.9 MHz (100kHz step)			
	Usable Sensitivity	15dBf					
	Frequency Response	30 — 15,000Hz ±3dB					40 — 15,000Hz
	Stereo Separation	38dB (1kHz)					35dB (1kHz)
AM	Frequency Range	USA: 530 — 1,710kHz (10kHz step)		Latin America: 530 — 1,710kHz (10kHz step)			
	Usable Sensitivity	22μV					
CD	Frequency Response	20 — 20,000Hz, ±3dB					5 — 20,000Hz, ±3dB
	S/N Ratio (A-weighted)	100dB		95dB			
	Total Harmonic Distortion	0.008%					0.01%
	Channel Separation	85		80dB			
MS	Frequency Response	20 — 20,000Hz, ±3dB		—			
	S/N Ratio (A-weighted)	100dB		—			
	Total Harmonic Distortion	0.008%		—			
Dimensions (W × H × D)		7"× 2"× 6-1/8" (178 × 50 × 155mm)				7"× 2"× 6-1/8" (178 × 50 × 157.5mm)	7"× 2"× 5-7/8" (178 × 50 × 150mm)

Cassette Tuner



ESN

4502

ESN E5 Cassette Tuner with CDC/DSP Control and Remote

Allowing those with extensive tape libraries to continue enjoying their favorite music with better performance than before, the 4502 is an ideal solution because it easily connects to an ECLIPSE CD Changer as well.

- DSP EQ
- Full logic Hybrideck tape mechanism
- FM/AM tuner
- Large 13-segment LCD
- 5V preamp output with low 55Ω impedance
- 3 prs. pre outputs
- CD Changer-ready (2 units)
- E-LAN data link system
- ESN security with CD changer

Equalizers



EQ2102



30-Band 1/3 Octave Competition Equalizer

An EQ tool for professional applications where systems require precision tonal contouring at a 1/3 octave level, the EQ2102 offers ease-of-use over sophisticated EQ parameters when used with an RTA and pink noise, resulting in smooth band-to-band frequency transitions.

- Stereo configured unit
- 30 frequency bands
- Input level control
- EQ defeat
- Boost cut selectable $\pm 6/12$ dB
- Switchable subwoofer crossover
- Summed channel line output
- LED overload indicators



21010

5-Band Graphic/1-Band Parametric Equalizer/Crossover

This parametric equalizer/crossover allows any system to achieve a well-balanced response for smooth, accurate sound.

- Master gain and defeat switch
- Input level and selector
- Front/rear fader
- 5-band Graphic EQ
- Low frequency-dedicated
- 1-band parametric EQ
- Subsonic and low/high pass filters
- Dedicated subwoofer crossover control
- Adjustable 0 to 4 second turn-on delay protection

CD Changer



MZ0803
Magazine unit

CH3083

8-Disc CD Changer with Magazine Unit

Functioning as an immense mobile jukebox with storage for 8 CDs, the CH3083 is ideal for increasing music content as it is also compatible with CD-R/RW discs.

- CD and CD-R/RW discs
- 8 disc magazine
- Coaxial digital output
- Multiple unit connectivity (2 units)
- Precision optical pickup
- "No disc contact" transport
- Reinforced high-rigidity chassis

GPS Unit



GPS105

GPS Unit

Connects to compatible AVX and CD Receiver units for use with Area Shot to enhance its features.

Optional for: AVX5000, CD7000, CD5000
Dimensions (W × H × D)
6-15/16" × 1-7/16" × 6-5/16"
175 × 36.5 × 160mm

Digital radio options



This option offers the easiest way to enjoy popular digital satellite broadcasting simply by connecting the SIR-ECL1 to a compatible head unit.



SIR-ECL1

ECLIPSE COMPATIBLE SIRIUS SATELLITE RADIO TUNER

Optional for: AVN7000, AVN6600, AVN5500
AVX5000, CD7000, CD5000,
CD4000, CD3000, CD2000

Dimensions (W × H × D)
4-15/16" × 1-7/16" × 4-3/16"
125 × 35 × 105mm



Use this convenient option to connect to any of the compatible head units to take advantage of the digital broadcast content offered by a growing number of commercial radio stations.



HDR105

HD Radio Tuner Unit

Optional for: AVN7000, AVN6600, AVN5500
AVX5000, CD7000, CD5000,
CD4000, CD3000, CD2000

Dimensions (W × H × D)
6-15/16" × 1-7/16" × 6-5/16"
175 × 36.5 × 160mm

Interface Adapter for iPod®

The new iPC-106 iPod Interface Adapter makes it possible to continue to enjoy the most popular personal music device together with ECLIPSE products.

Note: iPods with dock connection.



NEW iPC-106



Interface Adapter for iPod®

Dimensions (W × H × D): 4-11/16" × 1-5/16" × 3-9/16"
120 × 32 × 90mm



Photo: AVN6600



Photo: CD7000

iPC-106 Functions

ECLIPSE models	AVN Series				AVX Series		
	AVN6600	AVN7000, AVN5500		AVN5495	AVX5000		AVX2494, AVX2404
Mode	iPod full control	SIRIUS control	CDCH control	CDCH control	SIRIUS control	CDCH control	CDCH control
Track next/previous	●	●	●	●	●	●	●
Fast next/previous	●	—	—	—	—	—	—
Text display	●	●	—	—	●	—	—
Search mode	● *1	● *2	● *2	● *2	● *2	● *2	● *2
Browsing list	●	—	—	—	—	—	—
Repeat	●	●	●	●	●	●	●
All repeat	●	●	●	●	●	●	●
Random	●	●	●	●	●	●	●
Album random	●	—	—	—	—	—	—
Power supply/charge	●	●	●	●	●	●	●

ECLIPSE models	CD Series		
	CD7000, CD5000, CD4000, CD3000	CD2000	
Mode	iPod full control	SIRIUS control	CDCH control
Track next/previous	●	●	●
Fast next/previous	●	—	—
Text display	●	●	—
Search mode	● *1	● *2	● *2
Browsing list	●	—	—
Repeat	●	●	●
All repeat	●	●	●
Random	●	●	●
Album random	●	—	—
Power supply/charge	●	●	●

*1: Playlist/Album/Artist/Genre/Song *2: Playlist/Album/Artist/Song

Power Amplifiers

ECLIPSE power amplifiers feature advanced digital and analog circuit topologies to achieve maximum performance over a range of different power ratings.

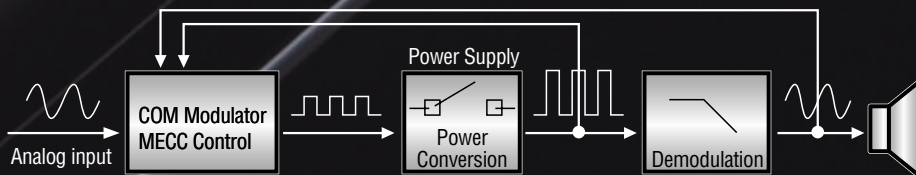


ECLIPSE

ice^{power}

ICEpower® technology revitalizes the amplifier line.

ECLIPSE's latest power amplifiers feature new ICEpower® technology. Seeing increasing use even in ultra high-end audiophile equipment, ICEpower® advantages include superior audio quality, compactness and reduced energy demand as well as reliability. Employing ICEpower® analog technology in ECLIPSE power amplifiers enable them to deliver stunning results in terms of linearity and reduced THD, increased dynamic range and high power stage efficiency.



In an ICEpower® analog circuit the analog signal is modulated into a PWM (Pulse Width Modulation) signal with the Controlled Oscillation Modulator (COM). Then after the power stage, this PWM signal feeds back into the Multivariable Enhanced Cascade Control (MECC) where it is compared to the original input signal and any differences are compensated for to eliminate power stage-induced distortion. The post output filter analog signal also feeds back into the MECC that compensates for output filter load dependent characteristics. The end result is superb sound quality free from conventional Class D limitations.

Power Amplifier Series

Joining the acclaimed EA Series is a brand new generation of power amplifiers, ECLIPSE's XA Series which utilize analog ICEpower® technology to create optimal amplification for the mobile environment.

XA Amplifier Series

ECLIPSE's XA Amplifier Series utilize the latest advancements in digital amplification topologies to create superior sounding amplifiers dedicated for the mobile environment. The XA Amplifier Series features high sound quality and is also extraordinarily energy-conscious.

- ICEpower® full-range Class D operation.
- Attractive design for practicality and ease of use with all controls such as level, crossover, low frequency boost and high/low pass filter adjustments mounted on the top panel.
- Output terminals conveniently located to allow multiple in-line unit installations.

- Bright LED indicators also mounted on the top assist in setting system levels to prevent amplifier clipping.
- Very high efficiency rate with low current draw.



5/4/3 Channel Class D Amplifier with Channelflex Crossover plus Subsonic Filter

Designed to offer an ideal amplification solution for powering a full speaker setup that uses four speakers plus subwoofer. Includes high and low pass

filters plus subsonic filters as well as a variable bass boost that can be used to best effect with a dedicated subwoofer control.



4/3/2 Channel Class D Amplifier with Channelflex Crossover plus Subsonic Filter

Adaptable four channel amplifier that can be bridged to configure a more powerful two channel unit that provides

350W per channel. Subsonic filter and variable bass boost are provided as well as high and low pass filters.



2/1 Channel Class D Amplifier with Channelflex Crossover plus Subsonic Filter

This versatile and powerful amplifier is ideal for powering a four speaker plus subwoofer system and can also be

bridged to function as a 300W single channel amplifier for ultimate systems.



1 Channel Class D Subwoofer Amplifier

Designed for use in the most demanding systems as a dedicated high-performance subwoofer amplifier.

Note: XA5000/XA4000/XA2000 incorporate ICEpower® technology.

EA Amplifier Series

The Integrated Amplifier Series offers outstanding sound quality with a distinctive appearance. Audiophile-grade power amplification is featured along with high current MOSFET switching power supplies that combine for dynamic performance with any speaker system.



EA4000

400W (4Ω)

4/3/2 Channel Power Amplifier with ChannelFlex Crossover plus Subsonic Filter

Featuring MOSFET devices for a pure, natural sound that can also be bridged to deliver 150W into 2 channels.

- High current, high-efficiency MOSFET switching power supply delivers significant power when demanded.
- Capable of high current delivery.
- “Easy Tune” top-mounted controls for easily adjusting amplifier parameters even after installation.
- Sleek, low-profile appearance with laser-cut top plate allows installation virtually anywhere.



EA2000

180W (4Ω)

2/1 Channel Class Power Amplifier with ChannelFlex Crossover plus Subsonic Filter

Medium powered, beautiful-sounding amplifier that can be transformed into a powerful 175W amplifier by bridging.

Class D Competition Series



DA7232

950W × 2

2 Channel Class D Subwoofer Amplifier



DA7122

1200W × 1

1 Channel Class D Subwoofer Amplifier

Note: DA7232/DA7122 incorporate ICEpower® technology.

Specifications



14.4V Power Supply									Meets UL1609 guidelines	
Channel	XA5000	XA4000	XA2000	XA1000	EA4000	EA2000	DA7232	DA7122		
Power Output (max.), 10% THD 2Ω	5/4/3	4/3/2	2/1	1	4/3/2	2/1	2	1		
	900W	840W	360W	640W	400W (4Ω)	180W (4Ω)	950W × 2	1200W × 1		
Power Output* 1% THD	2Ω	75W × 4 + 450W	175W × 4	150W × 2	480W	—	850W × 2	950W × 1		
	4Ω	50W × 4	125W × 4	100W × 2	—	75W × 4	60W × 2	620W × 2	650W × 1	
	4Ω Sub Chnl.	300W × 1	—	—	320W × 1	—	620W × 2	650W × 1		
	4Ω Bridged	150W × 2	350W × 2	300W × 1	—	150W × 2	175W × 1	—	—	
THD @ Rated Power	@2Ω	—	—	—	—	—			<1.0%	
	@4Ω	—	0.05%	—	—	0.05%			<1.0%	
	@4Ω Sub Chnl.	0.25%	—	—	0.25%	—	—			<1.0%
S/N Ratio*, 1W out					>90dB			>120dB		
Frequency Response, 1W out	20 — 20,000Hz (stereo)				20 — 200Hz		20 — 20,000Hz		4 — 200Hz, ±1dB @4Ω	
Amp Crossovers	Hi-Pass 18dB/oct.	30 — 500Hz			—		30 — 500Hz		—	
	Lo-Pass 18dB/oct.	50 — 500Hz			20 — 200Hz		50 — 500Hz		50 — 200Hz	
	Subsonic 18dB/oct.					18Hz				Defeat 1 — 60Hz
Pre-Amp Output Lo-Pass 18dB/oct.	—		No Filter		—		No Filter		No Filter	
									50 — 200Hz	
Dimensions (W × H × D)	15-3/4" × 2-5/16" × 10-3/16"	15-3/4" × 2-5/16" × 10-3/16"	9-13/16" × 2-5/16" × 10-3/16"	9-13/16" × 2-5/16" × 10-3/16"	13-3/8" × 2-5/16" × 10-3/16"	9-13/16" × 2-5/16" × 10-3/16"	21" × 2" × 11-1/16"	15-3/4" × 2" × 11-1/16"		
	400 × 59 × 259mm	400 × 59 × 259mm	250 × 59 × 259mm	250 × 59 × 259mm	340 × 59 × 259mm	250 × 59 × 259mm	533 × 52 × 300mm	400 × 52 × 300mm		

* Meets CEA2006 guidelines



Subwoofers

SW9100 Titanium Quad-Pro Series



Pro Series

SW9182 Pro

18" Subwoofer ($1\Omega \times 4$)

SW9152 Pro

15" Subwoofer ($1\Omega \times 4$)



SW9000 Series

Continuing to rule as ECLIPSE's top subwoofers, the SW9000 Series is also available in special competition-grade Pro configurations. Featuring Titanium Quad(4) and Double Voice Coil (DVC) technology to ensure quick response, high efficiency and extreme SPLs. The non-pro SW9000 Series offers Dual Voice Coils (DVC) with reference sound quality and ultra-low response that is taut and powerful with well-defined pitch.

- Polyether foam surround
- Solid titanium cone
- Dual mirror-imaged spiders
- Titanium voice coil former
- "Bottomless" design
- Aero-vented pole piece
- Cast aluminum frame
- Triple-stacked magnet
- RMS power handling: Pro 3000W/750W
- Max. power handling: Pro 5000W/1500W
- Voice coil: Pro Quad/DVC
- QCA (Quick Change Assembly) technology
- Voice coil diameter: Pro 4" / 3"
- Magnet motor: Pro 500 oz / 250 oz



SW9100 Titanium DVC Series



QCA (Quick Change Assembly)
basket replacement

SW9152 15" Subwoofer ($4\Omega + 4\Omega$)

SW9122 12" Subwoofer ($4\Omega + 4\Omega$)

SW9102 10" Subwoofer ($4\Omega + 4\Omega$)



SW8000 Series



SW8200 12" Subwoofer (4Ω) **NEW** SW8000 10" Subwoofer (4Ω)



SW8000 Series

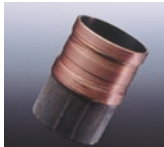
The heavy-duty SW8000 series is available in the most popular sizes and sports a distinctive look.

- RMS power handling: 670W/625W
- Max. power handling: 2000W/1900W
- Linear transducer technology
- Solid aluminum cone heat sink
- Single 4Ω compound linear voice coil
- 2000oz dual stacked magnet
- Aluminum cast basket
- Aluminum cast magnet heat sink
- SBR synthetic rubber surround
- Polyester-cotton spider
- QCA (Quick Change Assembly) technology
- 10awg push and screw terminal

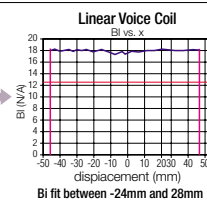
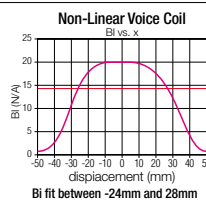
ECLIPSE linear transducer technology*



* Patent pending



The world's first passive, long throw audiophile subwoofer for the mobile environment offers ideal transient response with accurate excursion, producing taut and powerful low frequencies that significantly enhance music.



Linear Transducer speaker* flat BL (force) vs. displacement (travel) graph compared to a conventional speaker's bell-shaped curve.

	SW9182Pro	SW9152Pro	SW9152	SW9122	SW9102	SW8200	SW8000
Size	18"	15"	15"	12"	10"	12"	10"
Fs	24Hz	27Hz	22Hz	22Hz	26Hz	16Hz	18Hz
Qts	0.17	0.15	0.39	0.30	0.47	0.42	0.40
DCR	1Ω × 4	1Ω × 4	4Ω + 4Ω	4Ω + 4Ω	4Ω + 4Ω	3Ω	3Ω
Vas	5.7 Cuft	2.0 Cuft	6.10 Cuft	3.20 Cuft	2.10 Cuft	8.27 Cuft	3.75 Cuft
Xmax (one way)	3.5" peak-to-peak (max: 4")	3.5" peak-to-peak (max: 4")	1.75"	1.50"	1.50"	1.50"	1.50"
Continuous Power Handling	3000W	3000W	750W	750W	750W	670W	625W
Maximum Power Handling	5000W	5000W	1500W	1500W	1500W	2000W	1900W

Final appearance may be changed.

Subwoofers

SW7000 Series



SW7200 12" Subwoofer (4Ω + 4Ω)

SW7000 10" Subwoofer (4Ω + 4Ω)

- RMS power handling: 500W/450W
- Max. power handling: 1500W/1300W

NEW



Side view of SW7000 Series

SW7000 Series

The SW7000 Series incorporates a heatsink voice coil/cone thermal sink that allow producing 500W without strain. ECLIPSE's low distortion/high excursion speaker cone design philosophy lets the speaker travel 1.4 inches, which is the most in its class.

- Solid aluminum cone heat sink
- Dual 4Ω aluminum voice coil
- Aluminum cast basket
- Rubber magnet boot
- Injection santoprene surround
- Dual conex mirrored spider
- Thruster air vent cooling system
- Vortex design basket heat sink

SW6000 Series



SW6200 12" Subwoofer (4Ω + 4Ω)

SW6000 10" Subwoofer (4Ω + 4Ω)

- RMS power handling: 350W/300W
- Max. power handling: 1000W/900W

NEW



Side view of SW6000 Series

SW6000 Series

A new redesigned SW6000 Series copes with increased input power capability and heavy duty requirements including a doubling of cone excursion. The cone material is now a Kevlar composite, new centralized terminals are included and the series has a completely new look that reflects its upgraded performance.

- Kevlar composite cone
- Dual 4Ω aluminum voice coil
- ABS + 15% fiber filled magnet cover
- Injection santoprene surround
- Rubber gasket
- Flat pc spider
- Air vent cooling system
- Quad 10awg chrome terminal

SW4000 Series



SW4200 12" Subwoofer (4Ω)

SW4000 10" Subwoofer (4Ω)

- RMS power handling: 250W/200W
- Max. power handling: 750W/600W

NEW



Side view of SW4000 Series

SW4000 Series

The new SW4000 Series easily competes with subwoofers of a higher class. A new Kevlar composite cone extends lows, maintains rapid transient response and well-defined pitch. Distinguished by an attractive and practical grill design, these speakers offer an ideal solution for extending system response.

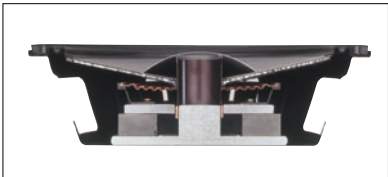
- Kevlar composite cone
- Integrated grill assembly
- Foam surround
- Polycarbonate spider
- 43oz magnet (SW4200), 30oz magnet (SW4000)
- 4-layer aluminum single voice coil
- Air vent cooling system

	SW7200	SW7000	SW6200	SW6000	SW4200	SW4000
Size	12"	10"	12"	10"	12"	10"
Fs	28Hz	35Hz	31Hz	38Hz	32Hz	38Hz
Qts	0.52	0.58	0.77	0.70	0.56	0.6
DCR	4Ω + 4Ω	4Ω + 4Ω	4Ω + 4Ω	4Ω + 4Ω	4Ω	4Ω
Vas	2.24 Cuft	0.85 Cuft	2.0 Cuft	0.85 Cuft	2.75 Cuft	1.25 Cuft
Xmax (one way)	0.70"	0.70"	0.03"	0.30"	0.30"	0.27"
Continuous Power Handling	500W	450W	350W	300W	250W	200W
Maximum Power Handling	1500W	1300W	1000W	900W	750W	600W

SYSTEMS

ECLIPSE subwoofer systems are constructed from sturdy wood, carefully assembled and well-damped for a tight bass. Finished in attractive and durable vinyl, these subwoofer systems are ready for final installation.

Featuring a configuration specifically designed for the installation space requirements of trucks, SUVs and similar vehicles, the SW5124BX incorporates a special low-profile bass driver that saves space and still delivers a massive low frequency sound.



Cutaway view of the SW5124 Lo-Profile Custom Application Woofer shows the significantly reduced depth of this speaker that makes it an ideal choice to install in a truck-box enclosure.

SW5124BX
12" Truck-box Subwoofer System

- RMS power handling: 125W
- Max. power handling: 250W



Speaker Grill



SW6124BXD
12" x 2 Subwoofer System

- RMS power handling: 500W
- Max. power handling: 1000W
- Single 4Ω terminal



Speaker Grill



SW6124BX
12" Subwoofer System

- RMS power handling: 250W
- Max. power handling: 500W

	SW6124BXD	SW6124BX	SW5124BX
Subwoofer Driver	SW6124 x 2	SW6124	SW5124
Frequency Response	28 — 250Hz	28 — 250Hz	35 — 250Hz
Sensitivity 1W/m SPL	88dB	85dB	88dB
Normal Impedance	8Ω + 8Ω Parallel = 4Ω	4Ω	4Ω
Dimensions (W x H x D)	27.6" x 13.8" x 15.3" (701 x 350 x 389mm)	14.7" x 13.9" x 15.3" (373 x 353 x 389mm)	18.9" x 15" x 8" (480 x 381 x 203mm)
Weight (Gross)	51.8lbs (23.5kg)	30.8lbs (14kg)	26lbs (11.8kg)
Weight (Net)	51.3lbs (23.3kg)	30.5lbs (13.9kg)	25.5lbs (11.6kg)
Finish	Grey & Black Vinyl	Grey & Black Vinyl	Grey & Black Vinyl
Continuous Power Handling	500W	250W	125W
Maximum Power Handling	1000W	500W	250W

Component Series Speakers

When size limitations are not a factor for speaker installations, ECLIPSE Component Series Speakers are an ideal choice. These are complete two- and three-way speaker systems with different components and crossovers designed to synergistically work together in perfect balance right from the start.

3-Way SC-Series



SC8365

6-1/2" Component 3-Way Speaker System

NEW

- RMS power handling: 100W
- Max. power handling: 300W
- Sensitivity (1Watt/meter) SPL: 88dB
- Crossover frequencies: woofer/midrange 1400Hz, midrange/tweeter 5kHz
- Mounting Depth: 2-7/8"



SC8355

5-1/4" Component 3-Way Speaker System

NEW

- RMS power handling: 85W
- Max. power handling: 250W
- Sensitivity (1Watt/meter) SPL: 87dB
- Crossover frequencies: woofer/midrange 1400Hz, midrange/tweeter 5kHz
- Mounting Depth: 2-5/8"

Woofer driver

- solid aluminum cone (SC8365: 6-1/2" (SC8355: 5-1/4")
- Aluminum diecast baskets
- Santoprene surround
- Porous flat spider
- Aluminum voice coil former
- Very narrow voice coil gaps
- Vented pole piece

Midrange driver

- 1-1/2" solid aluminum hard dome
- Neodymium magnet
- Aluminum voice coil former
- Ferro-fluid cooled
- Flush-mounting kit

Tweeter

- 3/4" solid aluminum hard dome
- Neodymium magnet
- Aluminum voice coil former
- Ferro-fluid cooling
- Flush-mounting kit

Crossover

- Audiophile-grade, speaker-specific matched component passive crossover with clear lexan cover
- 12dB/octave high-pass, 6dB/octave low-pass Butterworth Optimum Q crossover filters
- OFC wirewound air core inductors and metallized polypropylene capacitors
- Tweeter protection circuit
- Variable tweeter sensitivity (-3dB/0dB/+3dB)

2-Way SC-Series



SC8264

6-1/2" 2-Way Driver with 1" Aluminum Tweeter

- RMS power handling: 85W
- Max. power handling: 250W
- Mounting Depth: 2-7/8"



SC8254

5-1/4" 2-Way Driver with 1" Aluminum Tweeter

- RMS power handling: 75W
- Max. power handling: 220W
- Mounting Depth: 2-3/8"

Woofer driver

- Metalized Mica PP
- 8-spoke, diecast vented aluminum basket frame
- Santoprene surround
- Symmetrical Low Distortion Spider
- High porous spider material
- 1-1/4" voice coil
- Aluminum voice coil former
- Narrow gap coil design
- Chromed vented air-cooled pole piece
- Gold-plated input terminals
- Grills included

High Frequency Driver

- Neodymium magnet
- 1" aluminum hard dome tweeter cone
- Ferro-fluid cooling
- Flush and angle mounting kits included

Crossover

- Passive 2-way optimized component-specific crossover network
- Compact, low-profile crossover with clear plexiglass cover
- 12dB/octave hi- and low-pass Butterworth filters
- Tweeter protection circuit
- Air/Iron core inductors
- ECLIPSE HQ capacitors
- Variable tweeter sensitivity (-3dB/0dB/+3dB)
- Gold-plated input/output terminals

Point Source Series Speakers

2-Way SP-Series

The SP Series II Point Source is an innovative 2-way component system that offers mounting options for the high frequency driver positioning flexibility in order to better meet installation requirements and achieve optimal sound. Woofers feature a new Kevlar composite for increased power handling and the external crossovers employ premium components.

Sound improvements

The improved power handling capability of ECLIPSE Point Source Series Speakers and the detachable tweeter option allows them to be more versatile to better suit a car's interior in achieving the maximum performance. ECLIPSE subwoofers can also be used for greater low frequency impact, blending easily with the sonic signature of these speakers.

An ideal solution

Specifically designed to function as self-contained speakers that represent the easiest way to drastically upgrade an in-car system, ECLIPSE Point Source Speakers are available in configurations to suit virtually any car. With a distinctive high-performance appearance, the many advantages these speakers have raise them above conventional replacement speakers.

- 1" titanium hard dome tweeter
- Low mass, low distortion Kevlar-PMI cone
- Neodymium tweeter magnet
- Detachable tweeter
- Grilles and Adaptors included
- Woofer, bullet diffuser for tweeter height extension
- Tweeter relocation kit (flush/surface mount kit)



SP6900 6 × 9" 2-Way Point Source

- RMS power handling: 90W
- Max. power handling: 270W

NEW



SP6500 6-1/2" 2-Way Point Source

- RMS power handling: 60W
- Max. power handling: 180W

NEW



SP5700 5 × 7" / 6 × 8" 2-Way Point Source

- RMS power handling: 55W
- Max. power handling: 165W

NEW



SP5000 5-1/4" 2-Way Point Source

- RMS power handling: 50W
- Max. power handling: 150W

NEW

Configuration Style



Point Source
Direct speaker replacement for factory-installed speakers.



Point Source w/ Extended Tweeter
For installations where the speaker is mounted some distance behind the grille, the supplied tweeter stand-off spacer can be added to extend the tweeter for better high frequency dispersion.



Point Source Detached Tweeter
The speaker can be detached into woofer and tweeter components so that the woofers can be installed in doors while tweeters can be installed closer to windows and other positions such as the dashboard.



Tweeters can be installed flush or mounted on dashboards and other locations as separate housings are provided.

	SP6900	SP6500	SP5700	SP5000
Woofer Size	6 × 9"	6-1/2"	5 × 7" / 6 × 8"	5-1/4"
Tweeter Size	1"	1"	1"	1"
Max. Power Handling	270W	180W	165W	150W
RMS Power handling	90W	60W	55W	50W
Sound Pressure Level	88dB	87dB	88dB	84.5dB
Frequency Response	45 — 40,000Hz	85 — 40,000Hz	90 — 40,000Hz	105 — 40,000Hz
Fs	45Hz	85Hz	90Hz	105Hz
Magnet Size	24oz	12oz	12oz	10oz
Mounting Depth	3.5"	2-1/4"	2-3/8"	2-1/4"
Voice Coil DCR (Ω)	3.6	3.6	3.6	3.6

Integrateed Series Speakers

ECLIPSE Integrated Series speakers are integrated concentric units that are designed to replace factory speakers for significantly better music fidelity.

Hybrid Mica PP Cone Woofer

The ECLIPSE speaker cone is hybrid mica PP for rigidity under intense power, ensuring distortion-free performance.

Butyl rubber surround

The butyl rubber surround allows linear cone excursion and dampens cone resonance for undistorted dynamic peaks and clarity at all levels.

Kapton voice coil former

Handles a large amount of heat without deforming.

Tweeter protection

A solid state device protects the speaker system from power overloads. This device will momentarily shut down the tweeter circuit, and will automatically reset when the condition normalizes.

Super tweeter (for SE8495, SE8375, SE8365, SE8355, SE8405 only)

To accommodate the extended high frequency response of DVD-Audio discs and to provide superior treble reproduction, the 3-way units incorporate a newly developed super tweeter that goes all the way out to 40kHz (typically 50kHz).

Small neodymium tweeter

The use of a neodymium magnet improves speaker efficiency.



SE8495 6 × 9" 4-Way

- RMS power handling: 75W
- Max. power handling: 220W



SE8375 5 × 7" 3-Way

- RMS power handling: 40W
- Max. power handling: 120W



SE8355 5-1/2" 3-Way

- RMS power handling: 30W
- Max. power handling: 90W



SE8405 4 × 10" 3-Way

- RMS power handling: 35W
- Max. power handling: 100W

	SE8495	SE8375	SE8465A
Size	6 × 9" 4-Way	5 × 7" 3-Way	4 × 6" 2-Way
Frequency Response	50 — 40,000Hz	85 — 40,000Hz	105 — 40,000Hz
Sensitivity	93dB	90dB	87dB
Hybrid Mica PP Cone	●	●	●
Rubber Surround	●	●	●
Kapton Voice Coil Former	●	●	●
Midrange Dome	—	—	—
Mylar Tweeter Dome	●	●	●
Super-Tweeter Dome	●	●	●
Neodymium Tweeter Magnet	●	●	●
Ferrite Woofer Magnet	●	●	●
Mounting Depth	3-1/16"	2-1/8"	1-3/4"



SE8465A 4 × 6" 2-Way

- RMS power handling: 30W
- Max. power handling: 90W



SE8465E 4 × 6" 2-Way

- RMS power handling: 30W
- Max. power handling: 90W



SE8365 6 × 1/2" 3-Way

- RMS power handling: 40W
- Max. power handling: 120W



SE8245 4" 2-Way

- RMS power handling: 25W
- Max. power handling: 75W



SE8235 3-1/2" 2-Way

- RMS power handling: 20W
- Max. power handling: 60W

Marine Loudspeaker

Specifically designed to withstand the rigors of marine and outdoors environments the SM6500 is ideal for use on boats.



SM6500 Marine Loudspeaker

Waterproof full-range speaker

Sensitivity	85dB
Woofer Cone	6-1/2" (UV Solar-Protected)
Tweeter	20mm Aluminum Hard Dome (UV Solar-Protected)
Basket	One Piece Cast Powder Coated Aluminum
Grille	Polycarbonate Plastic (UV Solar-Protected)
Woofer Magnet	Ferrite
Tweeter Magnet	Neodymium
Mounting Depth	3-1/2"

SE8465E	SE8365	SE8355	SE8405	SE8245	SE8235
4 × 6" 2-Way	6-1/2" 3-Way	5-1/2" 3-Way	4 × 10" 3-Way	4" 2-Way	3-1/2" 2-Way
105 — 40,000Hz	90 — 40,000Hz	90 — 40,000Hz	65 — 40,000Hz	105 — 40,000Hz	120 — 40,000Hz
87dB	90dB	89dB	91dB	89dB	87dB
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
—	—	—	●	—	—
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
1-3/4"	1-7/8"	1-7/8"	2-3/8"	1-5/8"	1-1/2"

Notes and Precautions

Product safety notice

- To ensure the safe operation of ECLIPSE products, please read the owner's manuals carefully prior to using.
- ECLIPSE is not responsible for any accident or damage due to improper installation, connections or products modified in any way.

Warning

- All products are intended for DC 12-Volt operation in negative grounded vehicles only. Never use them in 24-Volt vehicles such as heavy trucks or diesel cars with cold-region specification, aircraft or marine environments unless specifically rated to handle these conditions.
- Do not adjust controls while driving. To adjust the controls, stop the car in a safe location.

Caution

- Installation of products requires experience and knowledge. Ask your ECLIPSE retailer for proper installation.
- ECLIPSE cannot guarantee that every product it manufactures will be able to be installed in every vehicle model or make. To be sure, please consult your ECLIPSE retailer.
- In some cases due to installation-related considerations, additional connecting cables may need to be purchased for an ECLIPSE product.
- The rear view camera is a parking aid. It must be used only to supplement your vehicle's side view and rearview mirrors. It is not a substitute for mirrors and careful driving.
- Do not remove the HDD from the head unit. ECLIPSE is not responsible for any loss of data, damage or malfunction to the disk drive mechanism resulting from unauthorized removal or tampering with the HDD.
- Please be sure to follow instructions provided in the installation manual for correct procedures as incorrect installation may affect driving-related operation and/or airbag operation.
- Please make sure only the official parts supplied with the unit are used. Do not substitute other parts as it may affect operation or compromise unit build integrity.
- Optimal MP3 and WMA file reproduction quality depends greatly on the original encoding process. Depending on the original encoding, files may sometimes not play back properly.
- The ECLIPSE navigation system requires its dedicated database for optimal performance. Do not insert other database DVDs that may cause the unit to malfunction or not respond.

General

- Product design and specifications are subject to change without prior notice or obligation as ECLIPSE reserves the right to constantly seek to improve its products.
- Due to characteristics and properties of various photography and printing processes, the color(s) of the actual product may slightly differ from those shown on these pages.
- Some screen images shown are simulated.
- Some graphic examples of ECLIPSE Web services may be from pre-release software and could vary slightly from the final version.

Licensing and Trademarks

- AVN is a registered trademark of FUJITSU TEN LIMITED.
- Circle Surround II and the SRS logo are trademarks or registered trademarks of SRS Labs, Inc.
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- ICEpower® is a registered trademark of Bang & Olufsen ICEpower a/s.
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Others

- Some recent audio discs may resemble conventional music CDs but are technically not Compact Discs (CD Red Book format) because of the copy protection technology employed. ECLIPSE cannot guarantee operation and performance if these discs are used.
- DVD-R/RW and DVD+R/RW playback is possible only for discs formatted for video mode.
- VR (Video Recording) mode-recorded discs and discs not finalized will not play in the unit.
- Some PC-authored discs may not play due to software application settings during authoring.
- DVD-R/RW, DVD+R/RW and CD-R/RW playback quality may be affected by disk surface condition and disc format initialization process.
- DVD-R/RW, DVD+R/RW, CD and CD-R/RW discs may not operate perfectly on unit due to disc imperfections.
- DVD-R/RW, DVD+R/RW, CD and CD-R/RW disc performance may suffer if a disc exhibits excessive wear, dirt and scratching
- ATRAC3 is an efficient compression codec for digital music files, allowing files to take up just 1/10 their uncompressed size without degrading audio quality.

- Playback of song data is only possible on Magic Gate-compatible memory stick devices.
- Memory Sticks up to 128MB can be used. Initialization must be executed with Windows 2000 or later.
- ECLIPSE is not responsible for any data loss on a Memory Stick or HDD due to unit failure or malfunction.
- Recorded using ATRAC3 compression, an effective compression codec with minimal negative effect on sound quality.
- Song storage can be less than the representative number of song files depending on each song's bit rate and sampling frequency.

Operation notes

- DVD-Video compatible units are only compatible with NTSC standards and Region-1 DVD-Video discs.
- DVD-Video is disabled when the vehicle is in motion. Inserting a DVD-Video will only allow the audio to be heard.
- The Global Positioning System or GPS was developed in the United States. It is a system that pinpoints a current position making use precisely of radio waves transmitted to earth from 3 or 4 GPS satellites.
- GPS data can sometimes be unavailable due to circumstances such as:
 - Interrupted GPS satellite radio waves because of geographical interference factors such as buildings, tunnels, elevated roads and similar conditions.
 - Unsatisfactory reception due to objects being on or in the near vicinity of the GPS antenna.
 - Interrupted transmission service may sometimes result from periodic maintenance or upgrades being performed by the US-based GPS tracking control system.
 - Transmission can be interrupted or degraded when a digital cellular operating on a 1.5GHz frequency rate is being used in the vicinity of the GPS-enabled unit.

AVN-specific

- AVN7000 map data compiled as of October 2004.
- AVN5495 map data compiled as of June 2004.
- AVN6600 map data compiled as of December 2004.
- AVN5500 map data compiled as of December 2004.
- Do not follow a navigation route if it could place you in an illegal, unsafe, or dangerous situation.
- Navigation controls cannot be operated in a moving vehicle.
- Please do keep in mind however that since emergency service providers sometimes change locations and services, a phone call should be made first to verify current availability before proceeding to the destination.

AVX/CD Receivers-specific

- Use map data while being aware of actual road conditions and obeying traffic rules.
- Some E-iSERV graphic examples may be from pre-release software and may vary slightly from the final version.
- Copying, publishing and the use of maps in electronic media or form are only possible when express written consent has been obtained prior to usage.

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